Defining the Outcomes
Making the IoT Vision a Reality

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IoT: Many Definitions

Sensors and actuators embedded in physical objects—from roadways to pacemakers—are linked through wired and wireless networks.

Empowering people and businesses through technology.

Things connected to the internet, anytime, anywhere. Integrating sensors and devices into everyday objects that are connected to the internet over fixed and wireless networks.

Wireless connectivity to things.

Physical objects integrated into the information network and active participants in business processes.

Connection of everyday objects and devices to electronic networks.
The Internet of Things is the network of physical objects accessed through the Internet that contain embedded technology to sense or interact with their internal states or the external environment.

New experiences, operating efficiencies, and business models .... enhanced value through improved utilization of these physical assets.
IoT Innovation Hubs

- Industries
- Energy
- B2C
- Smart Cities
- Connected Home
- Safety and Security

Industry Innovation: Business Processes and Operations

- Sensors and Devices
- Networks and Protocols
- Data Analytics
- Control Systems
Connecting Things: Manufacturing Automation

Replacement Order Sent to Machine Supplier
NEW ORDER FOR
PART #12XF12
Replacement
Service Scheduled
for Next Downtime
Connecting Things: Smart Grid
Power Outage in Your Area: Repairs Underway
Update:
Power Is Restored
Cisco’s Role

IoT Connectivity Platform

Industry Innovation: Business Processes and Operations

Sensors and Devices
Networks and Protocols
Data Analytics
Control Systems
Cisco’s IoT Connectivity Platform

Manage Private and Public Networks
Enable Service Providers’ M2M Services
Connect to All Things, Even Unintelligent Ones
Secure the Infrastructure
Compute Data In Motion
The Platform for Partner Ecosystem
Cisco IoT Connectivity Platform

Sensors and Devices
- Location
- Identity
- Policy
- Aggregation

Networks and Protocols
- Scale
- Difficult networks
- Security
- Service Provider M2M

Data Analytics
- Data Aggregation
- Distributed Compute
- Video Analytics
- Data in Motion

Control Systems
- Determinism
- Safety
- Latency
- Soft Machines
Steps to Realize Cisco IoT Connectivity Platform

First Step: Connectivity
- Ruggedized Infrastructure
- M2M
- Sensor Enablement

Second Step (Today): Optimized for IoT
- New Protocols
- Distributed Compute

Third Step: Platform for IoT
- Multi-tenant Cloud Services

Fourth Step: Enabling the Internet of Everything
Five Things We Need to Do as an Industry

- Define Technology Architectures
- Enable Business Innovation
- Educate the Ecosystem
- Standards, Policy, and Regulation
- Awaken to the Possible
Thank you.